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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/578,313	07/24/2008	Dmitry Cherkasov	076030-0011	5625
20277 7590 03/16/2011 MCDERMOTT WILL & EMERY LLP 600 13TH STREET, N.W. WASHINGTON, DC 20005, 2006			EXAMINER	
			RILEY, JEZIA	
WASHINGTON, DC 20005-3096			ART UNIT	PAPER NUMBER
			1637	
			MAIL DATE	DELIVERY MODE
			03/16/2011	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
Office Astion Occurs	10/578,313	CHERKASOV ET AL.			
Office Action Summary	Examiner	Art Unit			
	JEZIA RILEY	1637			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period vor Failure to reply within the set or extended period for reply will, by statute. Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. lely filed the mailing date of this communication. 0 (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>06 Ja</u> This action is FINAL . 2b) ☑ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) <u>1-35,37-56,58-64,66 and 68</u> is/are pe 4a) Of the above claim(s) <u>51,53-56 and 58-64</u> i 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) <u>1-35,37-50,52,66 and 68</u> is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) <u>1-35,37-56,58-64,66 and 68</u> are subjected.	s/are withdrawn from consideration				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicated any not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) \[\sum \] Notice of References Cited (PTO-892)	4) ☐ Interview Summary	(PTO-413)			
2) Notice of Preferences Cited (PTO-992) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

DETAILED ACTION

Response to Remarks

Applicants' arguments, filed on1/6/11, have been approved and entered. They have been fully considered. Rejections and/or objections not reiterated from previous office actions are hereby withdrawn. The following rejections and/or objections are either newly applied or reiterated. They constitute the complete set presently being applied to the instant application.

Claim Objections

Claims 25-27 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim should refer to other claims in the alternative only--, and/or, --cannot depend from any other multiple dependent claim. See MPEP § 608.01(n).

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 28-35, 37-50, 52 and 58 provide for the use of the nuc-macromolecule, but, since the claim does not set forth any steps involved in the method/process, it is unclear what method/process applicant is intending to encompass. A claim is indefinite where it merely recites a use without any active, positive steps delimiting how this use is actually practiced.

Claims 28-35, 37-50, 52 and 58 are rejected under 35 U.S.C. 101 because the claimed recitation of a use, without setting forth any steps involved in the process,

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results in an improper definition of a process, i.e., results in a claim which is not a proper process claim under 35 U.S.C. 101. See for example *Ex parte Dunki*, 153 USPQ 678 (Bd.App. 1967) and *Clinical Products, Ltd.* v. *Brenner*, 255 F. Supp. 131, 149 USPQ 475 (D.D.C. 1966).

Double Patenting

The non-statutory double patenting rejection, whether of the obviousness-type or non-obviousness-type, is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent. *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); *In re Van Ornam*, 686 F. 2d 937, 214 USPQ 761 (CCPA 1982); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir 1985); and *In re Goodman*, 29 USPQ 2d 2010 (Fed. Cir. 1993).

A timely filed terminal disclaimer in compliance with 37 C.F.R. § 1.321(b) and (c) may be used to overcome an actual or provisional rejection based on a non-statutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 C.F.R. §1.78(d).

Effective January 1, 1994, a registered attorney or agent or record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 C.F.R. §3.73(b).

Claims 1-35, 37-50, 52, 66 and 68 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1, 69-155 of co-pending Application No. 11/886,518 Although the conflicting claims are not identical, they are not patentably distinct from each other because the "macromolecular compounds," methods of making same, and kits comprising same claimed herein and in the noted application are directed to substantially overlapping subject matter.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-5, 8, 10, 13, 14, 16-19, and 66 are rejected under 35 U.S.C. 102(e) as being anticipated by Bodepudi et al. (US20070208169).

Bodepudi et al provides a series of novel nucleotide derivatives that contain a label covalently attached to an imidazole compound. The compounds (formula I) are useful as labels for detection of nucleotide sequences. (Summary of the invention).

The reference comprises conjugating or linking a nucleoside, nucleotide, or a nucleoside or nucleotide analogs to compounds of formula I. The compounds of formula I are conjugated via the linking group by a variety of means, including ionic attraction or covalent attachment. Preferably, the compounds are linked via covalent attachment. The linking groups or linkers are capable of reacting with a "complementary functionality" of a reagent, e.g., a nucleoside or nucleotide or nucleic acid, and forming a "linkage" that connects the compound to the label. The linker can be any linker known to those of skill in the art which is viewed to be inclusive of polymer of instant claim 1.

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Preferred linking groups include but are not limited to, (CH2CH2O)n, (CH2O)n, or (CH2)n; wherein n is an integer from about 1 to about 30, Optionally, the linker is a covalent bond (i.e., label may be bonded to the base by a covalent bond). [0249].

Applicants argue that the cited reference only discloses the combination of low molecular weight markers and linkers. Examiner respectfully disagrees on the basis that the reference page 7 [0112]-[0114] cited labels which include aequorin for example, a marker with a molecular weight of "22kda" according to US 5766941 col. 30 lines 3-10.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JEZIA RILEY whose telephone number is (571)272-0786. The examiner can normally be reached on 9:30AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion can be reached on 571-272-0782. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jezia Riley/ Primary Examiner, Art Unit 1637 3/13/2011